



October 22, 2004

002-10272-00-005

Mr. G. Jeffrey Hu, P.E.  
 California Regional Water Quality Control Board, Los Angeles Division  
 320 West Fourth Street, Suite 200  
 Los Angeles, California 90013

**Subject:** Additional Subsurface Investigation Report, Bodycote Techni-Braze, 11845 Burke Street,  
 Santa Fe Springs, California

Dear Mr. Hu:

On behalf of Bodycote Thermal Processing (Bodycote), LFR Levine-Fricke (LFR) has prepared this letter report to present the findings of the additional subsurface investigation at the above-referenced property ("the Site"; Figure 1). The scope of work was detailed in LFR's *Workplan for Groundwater and Additional Subsurface Investigation* dated June 18, 2004 and approved by the California Regional Water Quality Control Board, Los Angeles Region in their letter dated July 15, 2004.

*START*

This report covers activities associated with the additional subsurface investigation at the Site, specifically: direct push of membrane interface probe (MIP) and electrical conductivity probe (ECP); collection of confirmation soil samples; laboratory analysis; data evaluation; conclusions; and recommendations.

### **Direct Push Investigation**

All applicable permits required for the completion of soil borings were obtained from the Los Angeles County Department of Health Services (LADHS) prior to beginning field activities at the Site. Copies of these permits are included in Attachment A.

On July 13, 15, 16, and 26, 2004, LFR oversaw the direct push of a MIP and ECP at 11 locations to a maximum depth of approximately 61 feet below ground surface (bgs). Prior to the direct push activities, utility clearances for the direct-push locations were acquired from Underground Service Alert. Underground utilities were clearly marked on the surface at each location. In addition, a private utility locator was contracted to clear the proposed locations for underground utilities. Boring locations are shown on Figure 2.

Data collected from the MIP and ECP were continuously evaluated during field activities to determine the final depth of each boring and subsequent direct-push locations. At all locations, the final depth of investigation was determined by refusal. Direct-push records including the rate of advancement, electron-capture detector (ECD) readings, photo-ionization detector (PID) readings,

and heater temperature for the MIP are included in Attachment B. Attachment B also includes MIP calibration values obtained prior to each push and photographs of the direct-push rig in operation.

Equipment malfunctions occurred during the initial pushes at borings LFB-1 and LFB-8. The push at LFB-1 was terminated at 35 feet bgs on July 13, 2004 and was continued at the same location on July 15, 2004, with the MIP and ECP records commencing at 35 feet bgs. The push at LFB-8 was terminated at 31.2 feet bgs on July 16, 2004 and was continued at the same location on July 26, 2004, with the MIP and ECP records commencing at ground surface.

Direct-push activities were performed under the supervision of an LFR California Professional Civil Engineer. All eight boreholes were backfilled with bentonite chips and hydrated in place following collection of soil samples.

### **Confirmation Soil Sampling**

Subsequent to the MIP and ECP investigation, 19 confirmation soil samples were collected by direct push at 8 locations (LFB-2, LFB-3, LFB-5, LFB-7, LFB-8, LFB-9, LFB-10, and LFB-11) directly adjacent to the MIP and ECP locations. Confirmation soil samples were collected at depths that are representative of the range of volatile organic compound (VOC) concentrations and soil types encountered at the Site, as indicated by the MIP and ECP tools, respectively. Soil lithology was logged and described using the Unified Soils Classification System (USCS). Lithologic logs prepared for each confirmation soil sampling boring are presented in Attachment C. To reduce the potential for cross contamination between borings, downhole probes and sampling equipment were decontaminated prior to use at each boring location. Drilling and logging were performed under the supervision of an LFR California Registered Geologist and Civil Engineer.

### **Laboratory Analysis and Results**

A total of 19 soil samples were collected in accordance with EPA Method 5035 and preserved in the field using methanol and bisulfate. The sample containers were sealed, labeled, and stored in a chilled cooler pending delivery to the analytical laboratory. Soil samples were submitted under strict chain-of-custody protocol to SunStar Laboratories, Inc. of Tustin, California (SunStar) for chemical analysis of VOCs by EPA Method 5035/8260B. Sunstar is a California certified analytical laboratory for the utilized test method. Copies of the laboratory data sheets for the soil analyses are included in Attachment D.

Tetrachloroethene (PCE) was detected at concentrations above the laboratory reporting limit in 17 of the 18 confirmation soil samples, at concentrations ranging from 10 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ) to 2,400  $\mu\text{g}/\text{kg}$ . In addition, benzene was detected in two samples at concentrations of 2.7  $\mu\text{g}/\text{kg}$  and 4.9  $\mu\text{g}/\text{kg}$ , which are both above the laboratory reporting limit. Toluene and trichloroethene (TCE) were detected at concentrations of 3.1  $\mu\text{g}/\text{kg}$  and 4.7  $\mu\text{g}/\text{kg}$ , respectively, in one sample (LFB-10 at 19 feet bgs).

Analytical results are summarized in Table 1. Figure 3 illustrates confirmation soil sample locations and shows VOC concentrations in soil. Current and historical PCE concentrations in site soil are shown on Figure 4. PCE isoconcentration maps for a shallow zone (extending from ground surface to approximately 15 feet bgs) and a deeper zone (extending from approximately 15 feet bgs to approximately 60 feet bgs) are also depicted on Figure 4.

### Data Evaluation

ECP data indicate that approximately the upper 25 feet of the subsurface at the Site consists of predominantly fine grained soil. The ECP response varied depending on several factors including water content of the soil, groundwater conductivity, soil-grain size, and soil type (e.g., silt versus clay). ECP responses at all 11 direct-push locations are shown on Figure 5 and summarized below:

- Soil conductivity was generally high between ground surface and about 15 feet bgs, with values predominantly in the range of 50 millSiemens per meter (mS/m) to 100 mS/m.
- From approximately 15 to 17 feet bgs, electrical conductivity was lower at several locations, with values predominantly in the 10 to 50 mS/m range.
- From approximately 17 to 23 feet bgs, conductivity was again generally high, with values in the 40 to 100 mS/m range.
- From approximately 23 to 42 feet bgs, several of the ECP logs show low to near zero soil conductivity, which is indicative of coarse-grained soils.
- From 23 to 61 feet bgs (the total depth of investigation with the ECP), soil conductivity was generally low, with values in the 25 to 50 mS/m range, again indicative of relatively coarse-grained soil. Within the coarse-grained soils between 23 and 61 feet bgs, all the ECP logs indicate several thin (1 to 2 feet thick) lenses of fine-grained soils. The depth of these lenses was not consistent from location to location.

An interpretation of fine- and coarse-grained layering along a northwest to southeast cross section through the suspected area of greatest soil impact is shown on Figure 6. Both previously logged soil borings and the current direct-push ECP logs were used for interpretation of subsurface conditions. The cross-section line is shown on Figure 2. In the depth interval that is interpreted as being predominantly coarse-grained on the ECP logs (below 23 feet bgs), the borehole logs show a similar though not as predominant change to coarser-grained soils. This may be due to the interpretation of soil samples as being representative of 5-foot intervals, so that an 18- or 24-inch soil sample would be interpreted as a 5-foot thick interval on the boring log.

Interpretations of regional geology in the Site vicinity indicate that the Semiperched Aquifer is not present, and that the Bellflower Aquiclude is present from ground surface to approximately 30 feet bgs. Below the Bellflower Aquiclude, the Gaspar Aquifer extends to approximately 95 feet bgs, where an unnamed aquiclude may be present at the base of the Gaspar Aquifer. Below the Gaspar

Aquifer and the underlying unnamed aquiclude are the merged Hollydale, Jefferson, and Lynwood Aquifers, with the base of the Lynwood Aquifer indicated as being approximately 250 feet bgs. Within 1 mile of the Site, the Gaspur and the underlying Hollydale/Jefferson/Lynwood Aquifers are indicated to be in hydraulic communication<sup>1</sup>. Site data appear to support this interpretation of the geology underlying the Site, with predominantly fine-grained soils to approximately 25 feet bgs and coarser-grained soils from approximately 25 feet bgs to at least 61 feet bgs. No borehole logs for the deeper wells (MW-1, MW-2, and MW-3) can be located at this time, but an April 14, 1995 letter from Terra-Vac to Hinderliter Heat Treating indicates that the top of an aquifer was interpreted as being encountered between 80 and 95 feet bgs. This may be the top of the Hollydale Aquifer.

The MIP data indicate that VOC impacts are present in several areas on the Site and at several depths. PID and ECD responses with the MIP tool are measured in microVolts ( $\mu$ V). While PID and ECD responses are qualitative indication of VOC impact, it is not possible to extrapolate the total or individual VOC concentrations from PID or ECD responses. Aqueous-phase, sorbed-phase, and non-aqueous-phase liquid (NAPL) VOC impact will all contribute to the MIP response measured by the PID and ECD. The ECD responds strongly to chlorinated hydrocarbons while the PID responds to VOCs in general. For a large portion of the Site, the ECD was at its maximum level. At these levels of impact, the PID response is indicative of the level of chlorinated hydrocarbon impact.

Significant VOC impact in shallow soil between ground surface and approximately 9 to 11 feet bgs in LFB-3 and LFB-4 was indicated by PID response above approximately 200,000  $\mu$ V. In LFB-7, spikes above 200,000  $\mu$ V were observed at approximately 44.0 and 52.0 feet bgs. In LFB-10, spikes above 200,000  $\mu$ V were observed at approximately 19.4 and 35.4 feet bgs. In LFB-11, PID response above 200,000  $\mu$ V was observed at several depths: from approximately 10 to 12 feet bgs, 18 to 20 feet bgs, 29 to 31 feet bgs, 39 to 40 feet bgs, 42 to 43 feet bgs, and 45 to 46 feet bgs. The highest PID response was observed at 10.95 feet bgs in LFB-11 and, at approximately 2,620,000  $\mu$ V, was about 2.7 times the next highest PID response. The observed depths of impact are generally coincident with fine-grained soils, as indicated by the ECP. The areas of significant VOC impact, as interpreted from the MIP responses, are shown in plan view and cross section on Figures 4 and 6, respectively. PID responses above 200,000  $\mu$ V, indicating significant VOC impact, were not observed in any other locations. While not indicative of significant impact, the ECD and PID responses indicate impact to the 5- to 8-foot thick coarser-grained zone found between approximately 20 and 30 feet bgs in several locations (LFB-2, LFB-3, LFB-4, LFB-5, LFB-6, LFB-7, and LFB-10).

Review of the MIP data from the initial 35 feet of LFB-1 suggests that the computer malfunction that caused the first push at that location to be prematurely terminated may have affected the data collected from ground surface to 35 feet bgs. No response is shown on either the PID or ECD for the first 23 feet, and the ECP response is approximately twice the response in subsequent pushes (see Attachment B). These data are not considered.

<sup>1</sup> State of California, Department of Water Resources, Southern District, 1961, Bulletin No. 104: Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, Appendix A: Ground Water Geology.

Confirmation soil sample data show PCE concentrations ranging from <2 µg/kg (at 58 feet bgs in LFB-8) to 2,400 µg/kg (at 38 feet bgs in LFB-10). Correlation between sample analytical results and MIP response is difficult because of the highly variable nature of the MIP response over short vertical distances, and because of potential inaccuracy in determining exact sample depth due to difficult and/or incomplete sample recovery.

### **Conclusions and Recommendations**

Based on the MIP, ECP, and soil sampling results, as well as the results of previous soil sampling conducted at the Site, the areas and depths of highest soil impact have been defined as follows:

- In the shallow soil zone from ground surface to approximately 15 feet bgs, the soil is mainly fine-grained silts and or clays with some fine sand. The area of greatest soil impact appears to extend from immediately north of the northwest corner of the building, near boring B-5, southeast through borings B-4, LFB-3, and LFB-4 to LFB-11.
- In the deeper soil zone from approximately 15 to 61 feet bgs, the soil is coarser grained, with poorly-graded to well-graded sands interbedded with lenses of fine-grained soils. The area of greatest impact appears to be mainly confined to the area around LFB-11, with some thin spikes of higher impact also observed at depth in LFB-7 and LFB-10.

Reinterpretation of the hydrogeology in the vicinity of the Site suggests that the shallow, fine-grained soils are the Bellflower Aquiclude, and the deeper (to at least 60 feet bgs) coarser-grained soils are the Gaspur Aquifer. The Semiperched Aquifer does not appear to be present beneath the Site. Limited information about the soils encountered during installation of MW-1, MW-2, and MW-3, combined with information about regional hydrogeology, suggests that a thin, unnamed aquiclude may be present at the base of the Gaspur Aquifer in the vicinity of the Site, with the deep wells penetrating into the top of the merged Hollydale, Jefferson, and Lynwood Aquifer.

Further effort will be required to remediate soils and groundwater to acceptable levels and to fully define the vertical extent of highly impacted soil at the Site. LFR recommends a pilot testing program to assess the applicability of several remedial technologies to treat the impacted soil and groundwater at the Site. Remedial technologies that may be applicable for shallow vadose zone soil impacts may include soil-vapor extraction and excavation. Soil-vapor extraction pilot testing should target the areas of highest soil impact under the northwest corner of the building, and may be enhanced by installation of short screens in the vapor extraction wells to target thin zones of impacted soil, such as at about 20 feet bgs in LFB-11. Planned underground infrastructure improvements on the northwest corner of the building may also present an opportunity for excavation and off-site disposal of highly impacted soils.

Remedial technologies that may be applicable for impacted soil in the deeper saturated zone may include in-well groundwater circulation and treatment, injection of chemical oxidants, and injection of carbohydrate sources (e.g., molasses, cheese whey, or Hydrogen Release Compound [HRC]) to enhance biodegradation. Initial pilot testing to assess hydrogeologic conditions should be conducted



through hydraulic testing of the groundwater zone. As part of the boring for well installation for these tests, investigation of the vertical extent of soil impact should be conducted, and attempts should be made to locate the top of the aquiclude that is believed underlie the Gaspur Aquifer at the Site.

If you have any questions regarding the contents of this letter report, please contact either of the undersigned at 714-444-0111.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Shipley".

Jay M. Shipley, P.E.  
Principal Engineer/Operations Manager

A handwritten signature in black ink, appearing to read "Jennifer A. Rothman".

Jennifer S. Rothman, P.E.  
Senior Associate Civil Engineer

**Attachments**

## CERTIFICATION

All engineering information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by an LFR Levine-Fricke California Professional Engineer.



October 22, 2004

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C. Fredrik Ahlers, P.E.  
Senior Civil Engineer  
California Registered Civil Engineer #C 66471

Date



- \* A professional engineer's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

## **LIMITATIONS STATEMENT**

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by LFR Levine-Fricke (LFR) and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given. To the extent that LFR relied upon any information prepared by other parties not under contract to LFR, LFR makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when LFR's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. LFR's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in environmental investigation conclusions cannot reasonably be achieved.

LFR, therefore, does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations or standards.

## TABLES



**Table 1**  
**Summary of Analytical Results**  
**Bodycote TechniBraze**  
**002-10272-00**

Location	Depth (Feet bgs)	Sample ID	Analyte Method Units	Benzene EPA 8260B µg/kg	Tetrachloroethene EPA 8260B µg/kg	Toluene EPA 8260B µg/kg	Trichloroethene EPA 8260B µg/kg
		Sample Date					
LFB-2	26	CS-2-26	07/27/04	<2	11	<2	<2
LFB-2	43.5	CS-2-43.5	07/27/04	<2	280	<2	<2
LFB-2	52	CS-2-52	07/27/04	<2	10	<2	<2
LFB-3	22.5	CS-3-22.5	07/27/04	<2	700	<2	<2
LFB-3	48	CS-3-48	07/27/04	<2	54	<2	<2
LFB-5	34	CS-5-34	07/27/04	<2	24	<2	<2
LFB-5	52	CS-5-52	07/27/04	<2	<2	<2	<2
LFB-7	19	CS-7-19	07/27/04	<2	470	<2	<2
LFB-7	36	CS-7-36	07/27/04	<2	1,800	<2	<2
LFB-7	52	CS-7-52	07/27/04	<2	10	<2	<2
LFB-8	15	CS-8-15	07/27/04	<2	100	<2	<2
LFB-8	58	CS-8-58	07/27/04	<2	<2	<2	<2
LFB-9	16	CS-9-16	07/27/04	<2	60	<2	<2
LFB-9	53	CS-9-53	07/27/04	2.7	12	<2	<2
LFB-10	19	CS-10-19	07/27/04	4.9	2,300	3.1	4.7
LFB-10	33	CS-10-33	07/27/04	<2	900	<2	<2
LFB-10	38	CS-10-38	07/27/04	<2	2,400	<2	<2
LFB-11	10	CS-11-10	07/27/04	<2	350	<2	<2
LFB-11	43.5	CS-11-43.5	07/27/04	<2	190	<2	<2

Notes:

VOCs are shown for detected compounds only.

See laboratory reports for a complete list of compounds analyzed.

SunStar = SunStar Laboratories Inc., Tustin, CA.

< = Not detected above laboratory reporting limit indicated.

µg/kg = micrograms per kilogram.

QA/QC *MJ*

## **FIGURES**



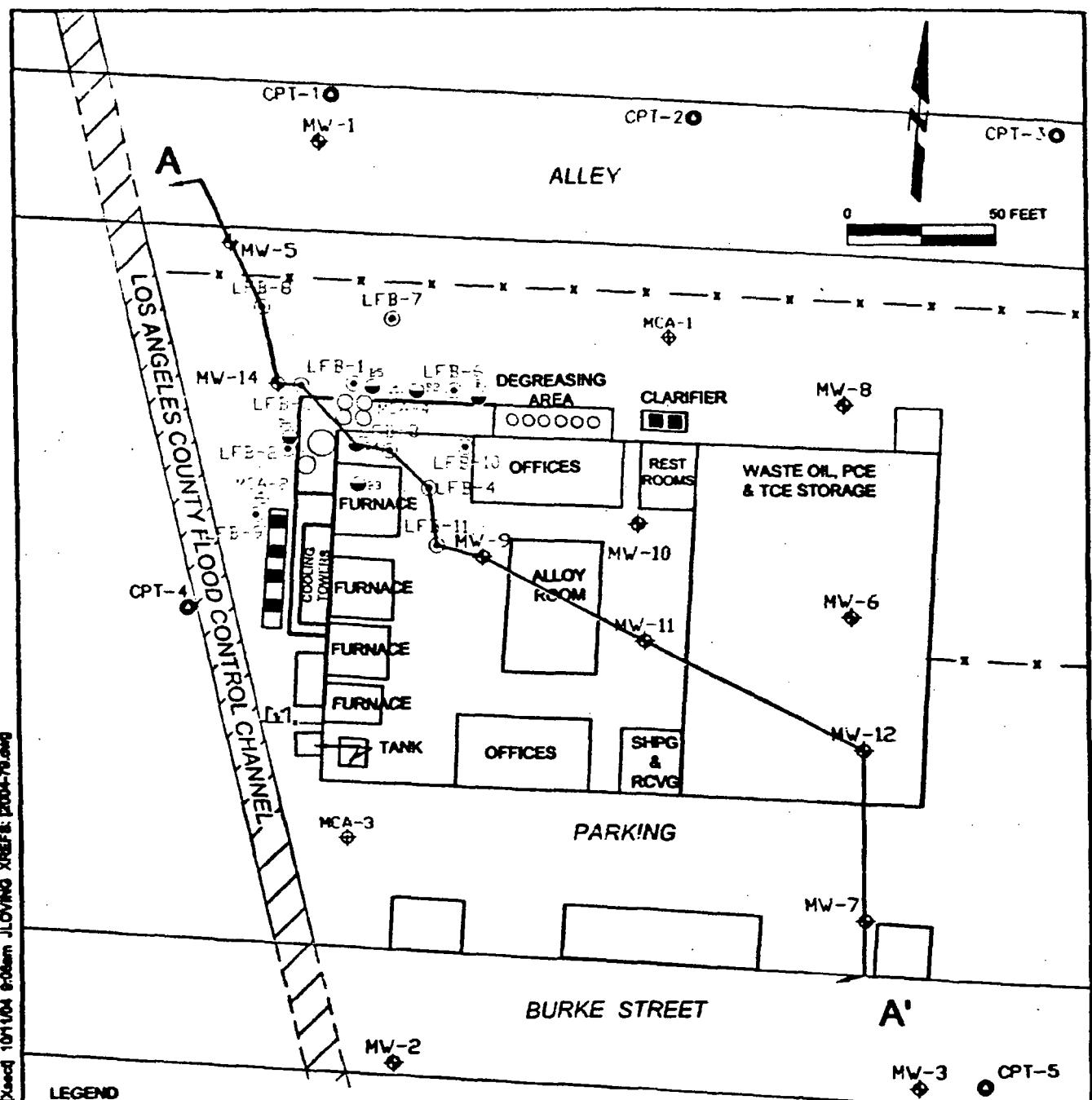
## Site

## Vicinity Map

Bodycote Techni Braze Project 002 10272-00



**Figure 1**



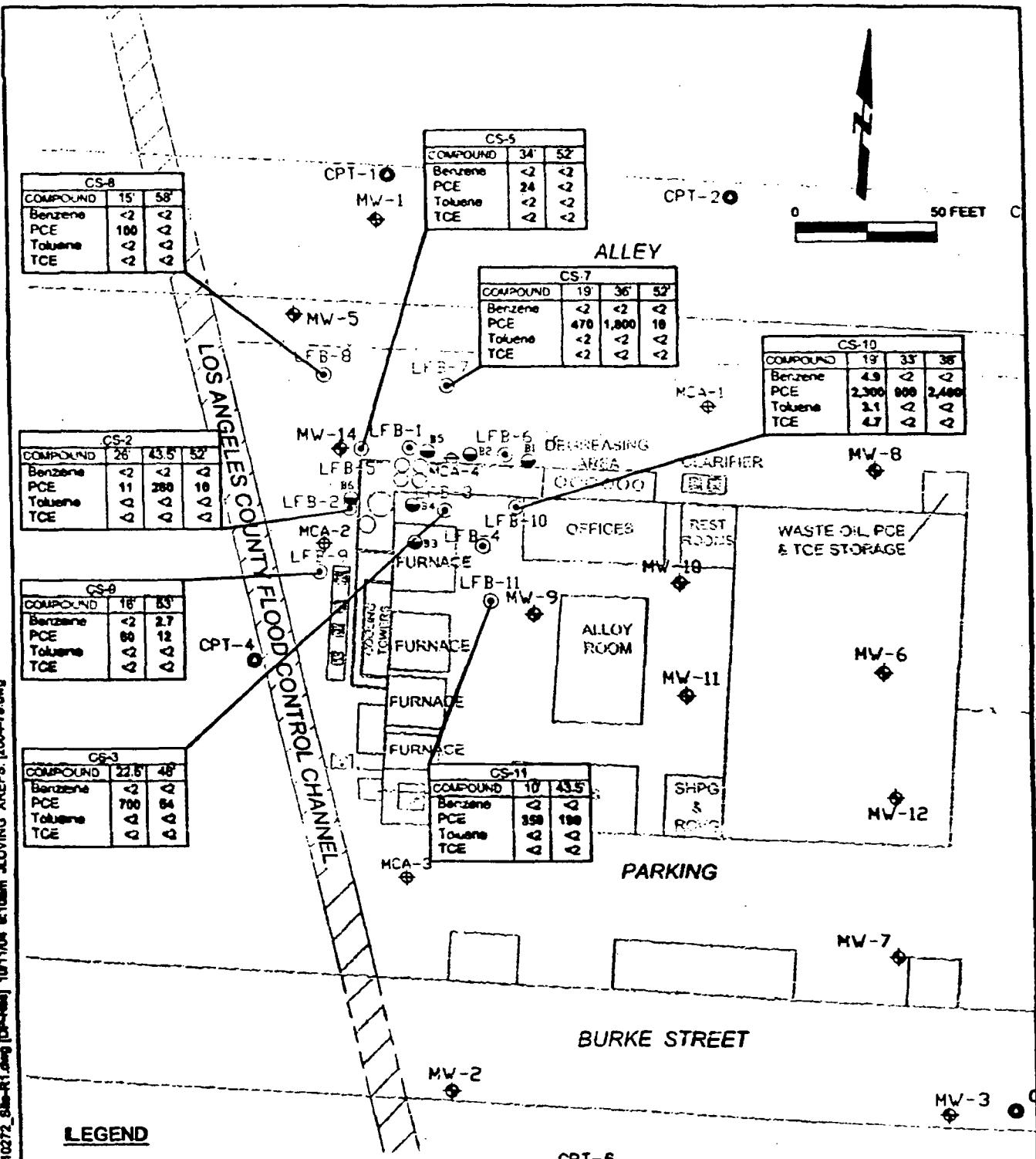
## **Site Plan with Cross-Section A-A'**

Bodycote Techni Braze - Project 002-10272-00



**Figure 2**

**NOTE:** Wells denoted with "TMW" were originally temporary monitoring wells, but were later converted to permanent, and the "T" was dropped from the well ID.

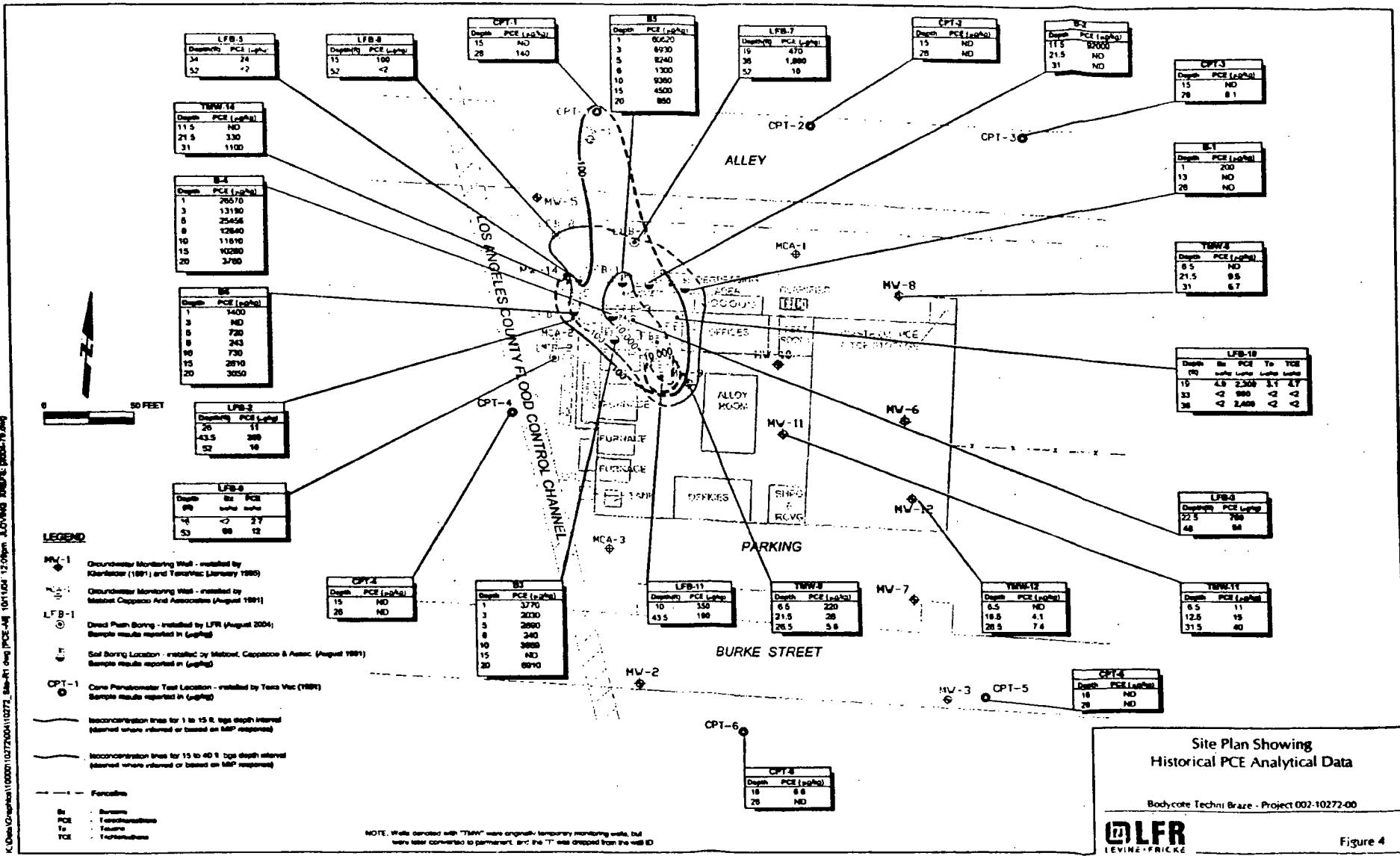


### Site Plan Showing Direct Push Analytical Data

Bodycote Techni Braze - Project 002-10272-00



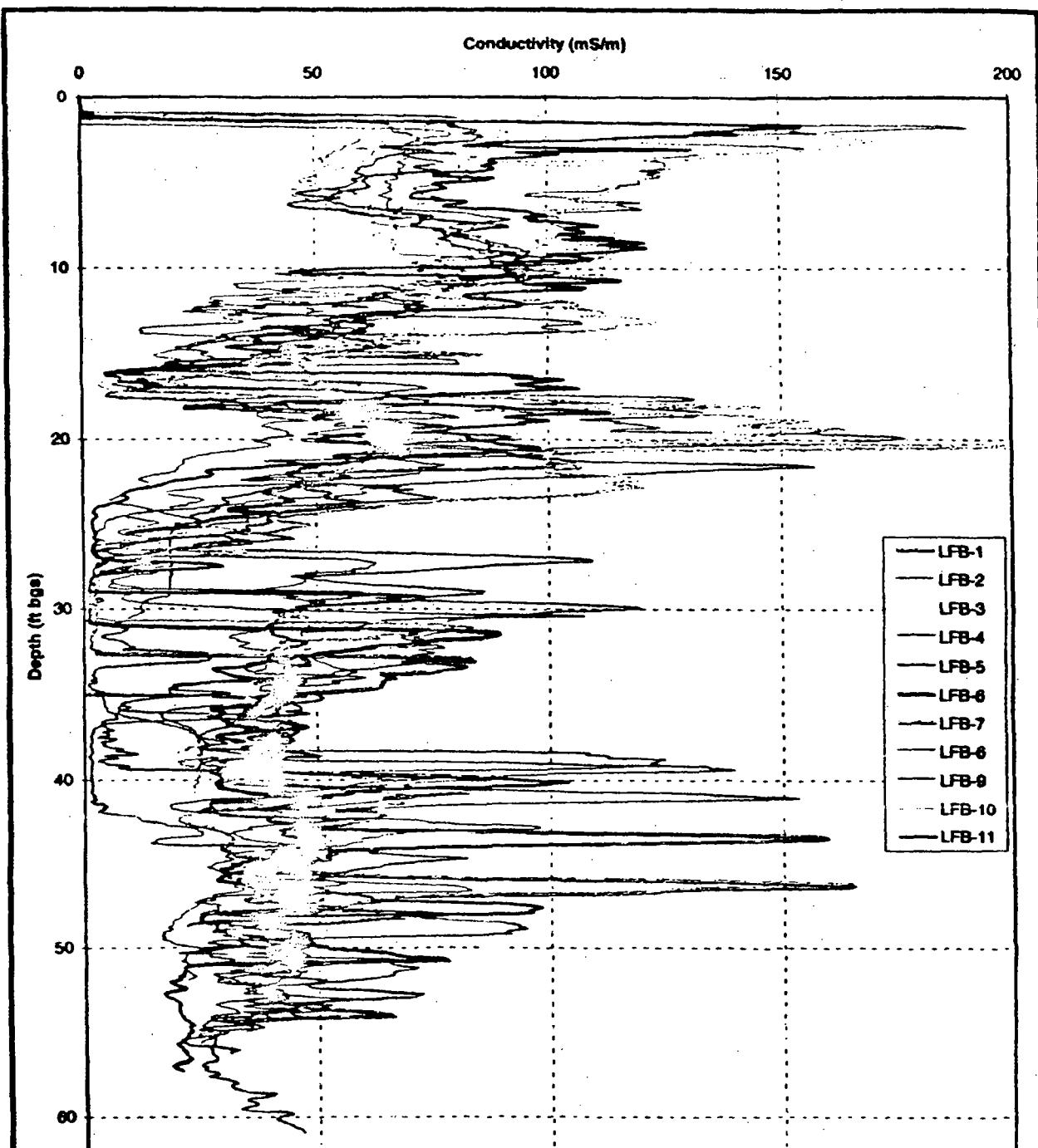
Figure 3



Site Plan Showing  
Historical PCE Analytical Data

Bodycote Techni Braze - Project 002-10272-00



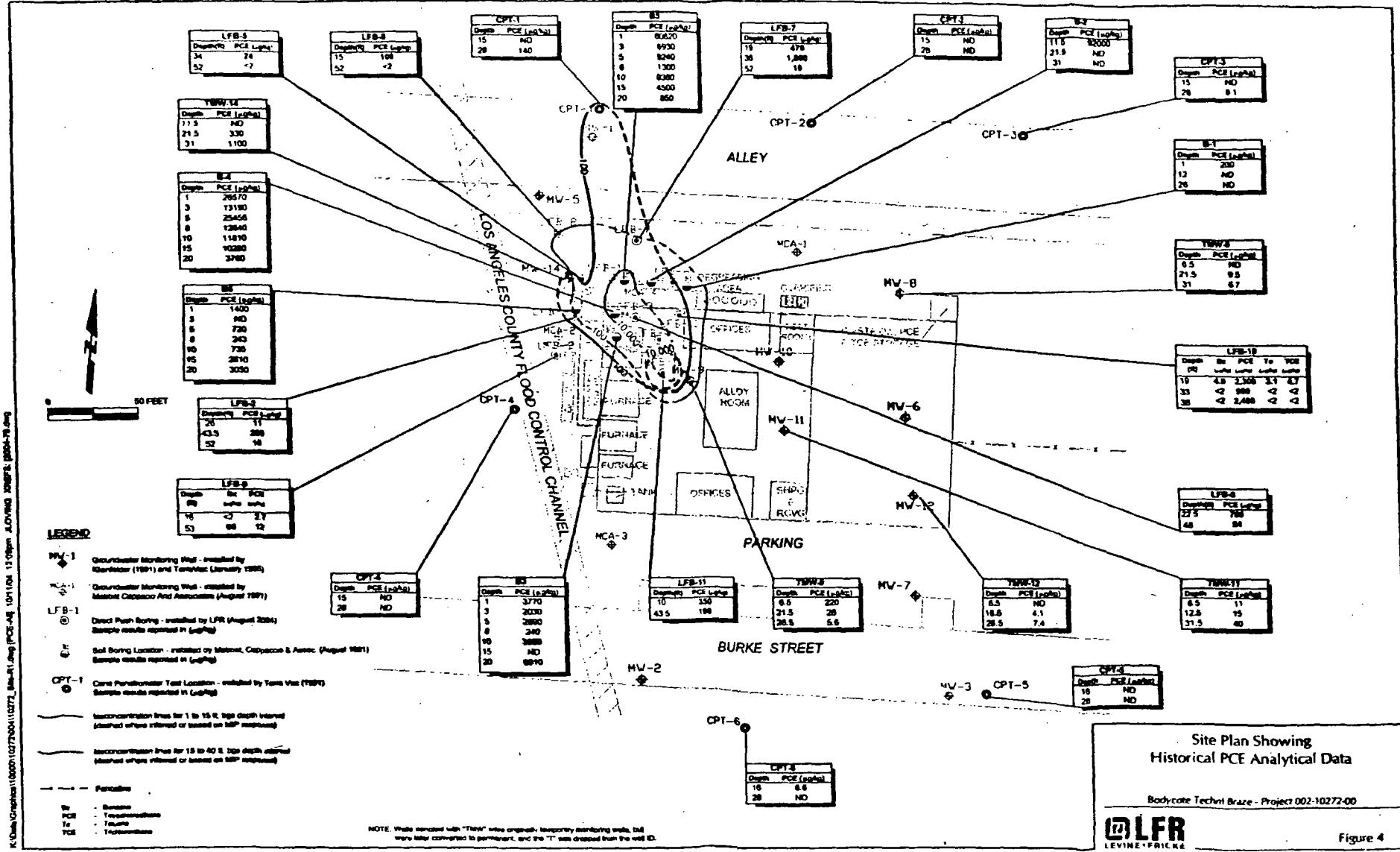


Soil Conductivity Profiles  
from Direct-Push Electrical Conductivity Probe

Bodycote Techni Braze  
Project No. 002-10272-00



Figure 5

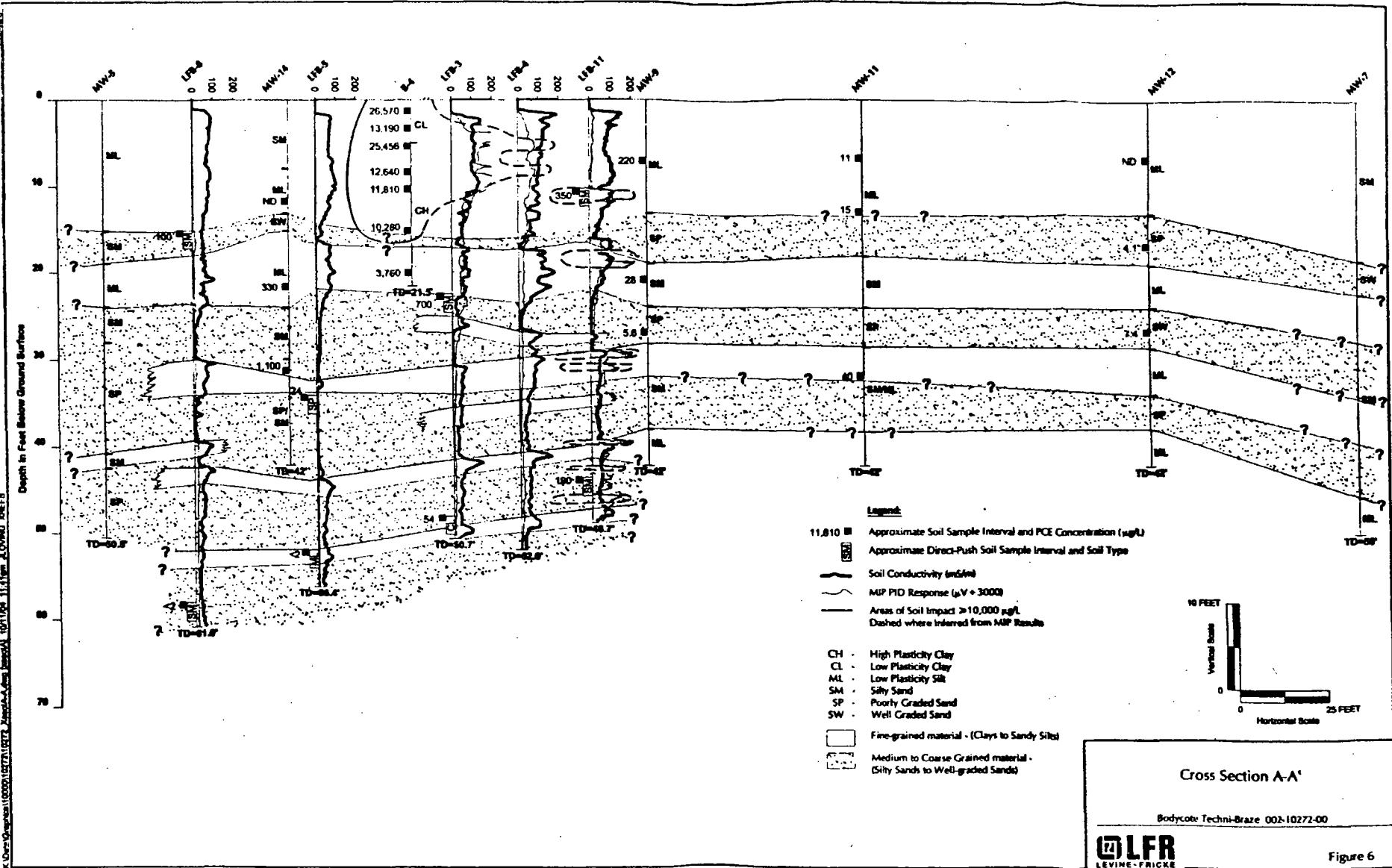


Site Plan Showing  
Historical PCE Analytical Data

Bodynote Technical Report - Project# 002-10272-00



**Figure 4**

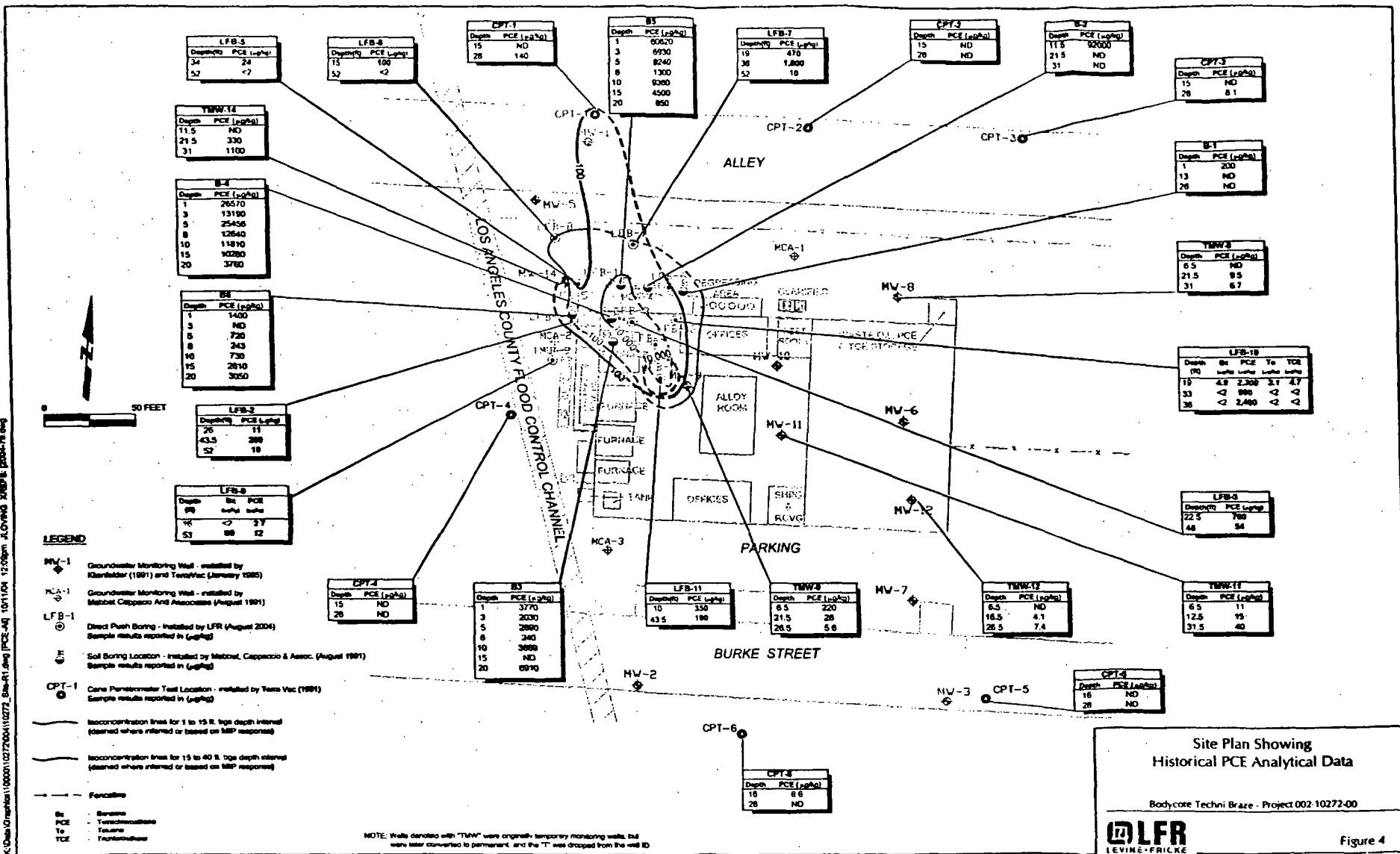


### Cross Section A-A'

**Bodycote Techni-Braze 002-10272-00**



**Figure 6**



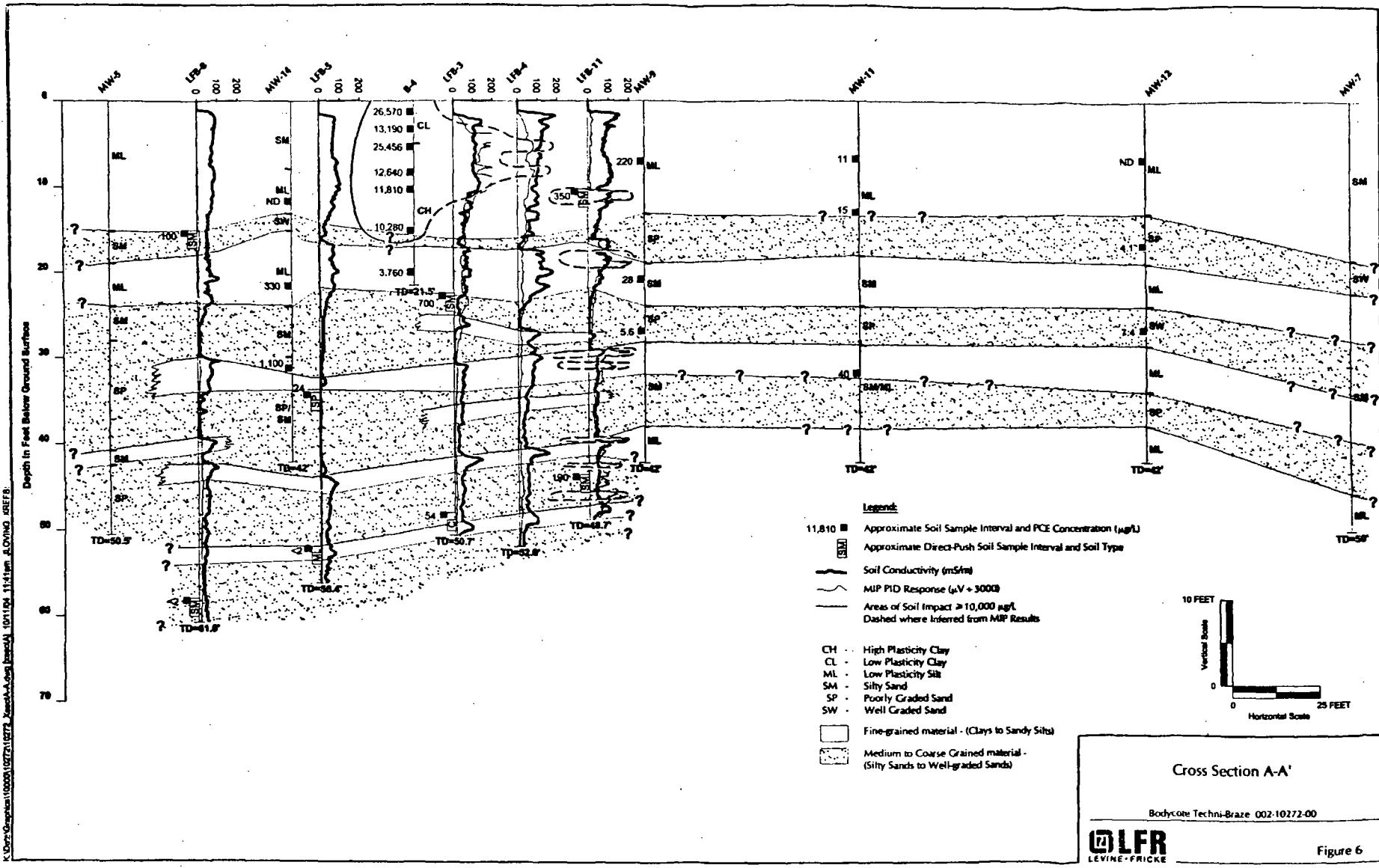


Figure 6

**ATTACHMENT D**

**Laboratory Reports and  
Chain-of-Custody Documentation**

*STAR-7*

# SunStar Laboratories, Inc.

05 August 2004

Jennifer Rothman  
LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa, CA 92626  
RE: Bodycote TechniBraze

Enclosed are the results of analyses for samples received by the laboratory on 07/27/04 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Ben Beauchaine  
Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-2-26	T400833-01	Soil	07/27/04 08:00	07/27/04 17:45
CS-2-43.5	T400833-02	Soil	07/27/04 08:15	07/27/04 17:45
CS-2-52	T400833-03	Soil	07/27/04 08:35	07/27/04 17:45
CS-9-16	T400833-04	Soil	07/27/04 08:50	07/27/04 17:45
CS-9-53	T400833-05	Soil	07/27/04 09:17	07/27/04 17:45
CS-5-34	T400833-06	Soil	07/27/04 09:45	07/27/04 17:45
CS-5-52	T400833-07	Soil	07/27/04 10:05	07/27/04 17:45
CS-8-15	T400833-08	Soil	07/27/04 10:35	07/27/04 17:45
CS-8-58	T400833-09	Soil	07/27/04 11:08	07/27/04 17:45
CS-7-19	T400833-10	Soil	07/27/04 11:30	07/27/04 17:45
CS-7-36	T400833-11	Soil	07/27/04 11:43	07/27/04 17:45
CS-7-52	T400833-12	Soil	07/27/04 12:08	07/27/04 17:45
CS-10-19	T400833-13	Soil	07/27/04 13:19	07/27/04 17:45
CS-10-33	T400833-14	Soil	07/27/04 13:31	07/27/04 17:45
CS-10-38	T400833-15	Soil	07/27/04 13:43	07/27/04 17:45
CS-3-22.5	T400833-16	Soil	07/27/04 14:00	07/27/04 17:45
CS-3-48	T400833-17	Soil	07/27/04 14:30	07/27/04 17:45
CS-11-10	T400833-18	Soil	07/27/04 14:50	07/27/04 17:45
CS-11-43.5	T400833-19	Soil	07/27/04 15:10	07/27/04 17:45

SunStar Laboratories, Inc.



Bea Beauchaine, Laboratory Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-2-26  
T400833-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072601	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropene	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropene	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-2-26  
T400833-01 (Sell)

Analysis	Result	Reporting Limit	Line#	Dilution	Batch	Prepared	Analyzed	Method	Notes
SeaStar Laboratories, Inc.									
<b>Volatile Organic Compounds by EPA Method 8260B</b>									
p-Isopropyltoluene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Methylene chloride	ND	2.0		-	-	-	-	-	
Naphthalene	ND	2.0		-	-	-	-	-	
n-Propylbenzene	ND	2.0		-	-	-	-	-	
Styrene	ND	2.0		-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0		-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0		-	-	-	-	-	
Tetrachloroethene	11	2.0		-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0		-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0		-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0		-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0		-	-	-	-	-	
Trichloroethene	ND	2.0		-	-	-	-	-	
Trichlorofluoromethane	ND	2.0		-	-	-	-	-	
1,2,3-Trichloropropane	ND	2.0		-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0		-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0		-	-	-	-	-	
Vinyl chloride	ND	2.0		-	-	-	-	-	
Benzene	ND	2.0		-	-	-	-	-	
Toluene	ND	2.0		-	-	-	-	-	
Ethylbenzene	ND	2.0		-	-	-	-	-	
m,p-Xylene	ND	4.0		-	-	-	-	-	
o-Xylene	ND	2.0		-	-	-	-	-	
Surrogate: Toluene-48		93.1%		81-117		-	-	-	
Surrogate: 4-Bromoanisole		91.3%		74-121		-	-	-	
Surrogate: Dibromoanisole		108%		81-125		-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Franks  
3150 Bristol Street #250  
Costa Mesa CA, 92626

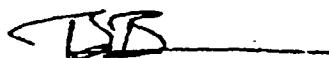
Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-2-43.5  
T400833-02 (Soil)

Analyst	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	40-1801	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	-	-	-	-	-	-	-
Bromochloromethane	ND	2.0	-	-	-	-	-	-	-
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	-
Bromoform	ND	2.0	-	-	-	-	-	-	-
Bromomethane	ND	2.0	-	-	-	-	-	-	-
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	-
Chlorobenzene	ND	2.0	-	-	-	-	-	-	-
Chloroethane	ND	2.0	-	-	-	-	-	-	-
Chloroform	ND	2.0	-	-	-	-	-	-	-
Chloromethane	ND	2.0	-	-	-	-	-	-	-
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	-
Dibromoethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	-
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	-
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	-

SunStar Laboratories, Inc.



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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-2-43.5  
T400833-02 (Sell)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
<b>Volatile Organic Compounds by EPA Method 8260B</b>									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Syrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	200	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropane	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	100%	81-J17	-	-	-	-	-	-	
Surrogate: 4-Bromo/morobenzene	98.7%	74-J21	-	-	-	-	-	-	
Surrogate: Dibromo/moromethane	110%	81-J25	-	-	-	-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechmBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-2-52  
T400833-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	•	•	•	•	•	•	•
Bromochloromethane	ND	2.0	•	•	•	•	•	•	•
Bromodichloromethane	ND	2.0	•	•	•	•	•	•	•
Bromofluoromethane	ND	2.0	•	•	•	•	•	•	•
Bromomethane	ND	2.0	•	•	•	•	•	•	•
n-Butylbenzene	ND	2.0	•	•	•	•	•	•	•
sec-Butylbenzene	ND	2.0	•	•	•	•	•	•	•
tert-Butylbenzene	ND	2.0	•	•	•	•	•	•	•
Carbon tetrachloride	ND	2.0	•	•	•	•	•	•	•
Chlorobenzene	ND	2.0	•	•	•	•	•	•	•
Chloroethane	ND	2.0	•	•	•	•	•	•	•
Chloroform	ND	2.0	•	•	•	•	•	•	•
Chloromethane	ND	2.0	•	•	•	•	•	•	•
2-Chlorotoluene	ND	2.0	•	•	•	•	•	•	•
4-Chlorotoluene	ND	2.0	•	•	•	•	•	•	•
Dibromochloromethane	ND	2.0	•	•	•	•	•	•	•
1,2-Dibromo-3-chloropropane	ND	2.0	•	•	•	•	•	•	•
1,2-Dibromoethane (EDB)	ND	2.0	•	•	•	•	•	•	•
Dibromomethane	ND	2.0	•	•	•	•	•	•	•
1,2-Dichlorobenzene	ND	2.0	•	•	•	•	•	•	•
1,3-Dichlorobenzene	ND	2.0	•	•	•	•	•	•	•
1,4-Dichlorobenzene	ND	2.0	•	•	•	•	•	•	•
Dichlorodifluoromethane	ND	2.0	•	•	•	•	•	•	•
1,1-Dichloroethane	ND	2.0	•	•	•	•	•	•	•
1,2-Dichloroethane	ND	2.0	•	•	•	•	•	•	•
1,1-Dichloroethene	ND	2.0	•	•	•	•	•	•	•
cis-1,2-Dichloroethene	ND	2.0	•	•	•	•	•	•	•
trans-1,2-Dichloroethene	ND	2.0	•	•	•	•	•	•	•
1,2-Dichloropropane	ND	2.0	•	•	•	•	•	•	•
1,3-Dichloropropane	ND	2.0	•	•	•	•	•	•	•
2,2-Dichloropropane	ND	2.0	•	•	•	•	•	•	•
1,1-Dichloropropene	ND	2.0	•	•	•	•	•	•	•
cis-1,3-Dichloropropene	ND	2.0	•	•	•	•	•	•	•
trans-1,3-Dichloropropene	ND	2.0	•	•	•	•	•	•	•
Hexachlorbutadiene	ND	2.0	•	•	•	•	•	•	•
Isopropylbenzene	ND	2.0	•	•	•	•	•	•	•
p-Isopropyltoluene	ND	2.0	•	•	•	•	•	•	•

SunStar Laboratories, Inc.



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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-2-52  
T400833-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	19	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropane	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	98.5%	81-J17	-	-	-	-	-	-	
Surrogate: 4-Bromofluorobenzene	100%	74-J21	-	-	-	-	-	-	
Surrogate: Dibromofluoromethane	114%	81-J25	-	-	-	-	-	-	

SunStar Laboratories, Inc.



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Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-9-16  
T400833-04 (Sell)

Analysis	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA. 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-9-16  
T400833-04 (Sell)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethylene	60	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethylene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropane	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	93.1%	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromo/fluorobenzene	82.0%	74-121	-	-	-	-	-	-	
Surrogate: Dibromo/fluoromethane	93.7%	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: B. Jycote Tech/Braze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-9-53  
T400833-05 (Sell)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Noise
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromoethane	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	-
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	-
Bromoform	ND	2.0	-	-	-	-	-	-	-
Bromomethane	ND	2.0	-	-	-	-	-	-	-
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	-
Chlorobenzene	ND	2.0	-	-	-	-	-	-	-
Chloroethane	ND	2.0	-	-	-	-	-	-	-
Chloroform	ND	2.0	-	-	-	-	-	-	-
Chloromethane	ND	2.0	-	-	-	-	-	-	-
2-Chloropropane	ND	2.0	-	-	-	-	-	-	-
4-Chloroethane	ND	2.0	-	-	-	-	-	-	-
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	-
Debromomethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
1,4-Dichlorobutadiene	ND	2.0	-	-	-	-	-	-	-
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	-
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	-

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBlaze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-9-53  
T400833-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
<b>Volatile Organic Compounds by EPA Method 8260B</b>									
Methylene chloride	ND	2.0	ug/kg	1	40728G1	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	12	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropene	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	2.7	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	91.8%	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromofluorobenzene	83.5%	74-121	-	-	-	-	-	-	
Surrogate: Dibromofluoromethane	93.9%	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA 92626

Project: Bodycole TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-5-34  
T400833-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	0° 28/04	07/29/04	EPA 8260B	
Bromo-chloromethane	ND	2.0	-	-	-	-	-	-	-
Bromo-dichloromethane	ND	2.0	-	-	-	-	-	-	-
Bromoform	ND	2.0	-	-	-	-	-	-	-
Bromomethane	ND	2.0	-	-	-	-	-	-	-
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	-
Chlorobenzene	ND	2.0	-	-	-	-	-	-	-
Chloroethane	ND	2.0	-	-	-	-	-	-	-
Chloroform	ND	2.0	-	-	-	-	-	-	-
Chloromethane	ND	2.0	-	-	-	-	-	-	-
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
Dibromo-chloromethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	-
Dibromomethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	-
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	-
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	-

SunStar Laboratories, Inc.



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Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-5-34  
T400833-06 (SoID)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	24	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropene	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	98.5%	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromofluorobenzene	92.8%	74-121	-	-	-	-	-	-	
Surrogate: Dibromoformmethane	106%	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechuBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-5-52  
T400833-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.



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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10271-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-5-52  
T400833-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0		•	•	•	•	•	
n-Propylbenzene	ND	2.0		•	•	•	•	•	
Syrene	ND	2.0		•	•	•	•	•	
1,1,2,2-Tetrachloroethane	ND	2.0		•	•	•	•	•	
1,1,1,2-Tetrachloroethane	ND	2.0		•	•	•	•	•	
Tetrachloroethene	ND	2.0		•	•	•	•	•	
1,2,3-Trichlorobenzene	ND	2.0		•	•	•	•	•	
1,2,4-Trichlorobenzene	ND	2.0		•	•	•	•	•	
1,1,2-Trichloroethane	ND	2.0		•	•	•	•	•	
1,1,1-Trichloroethane	ND	2.0		•	•	•	•	•	
Trichloroethene	ND	2.0		•	•	•	•	•	
Trichlorofluoromethane	ND	2.0		•	•	•	•	•	
1,2,3-Trichloropropene	ND	2.0		•	•	•	•	•	
1,3,5-Trimethylbenzene	ND	2.0		•	•	•	•	•	
1,2,4-Trimethylbenzene	ND	2.0		•	•	•	•	•	
Vinyl chloride	ND	2.0		•	•	•	•	•	
Benzene	ND	2.0		•	•	•	•	•	
Toluene	ND	2.0		•	•	•	•	•	
Ethylbenzene	ND	2.0		•	•	•	•	•	
m,p-Xylene	ND	4.0		•	•	•	•	•	
o-Xylene	ND	2.0		•	•	•	•	•	
Surrogate: Toluene-d8		92.2%		81-117	•	•	•	•	
Surrogate: 4-Bromofluorobutene		84.4%		74-121	•	•	•	•	
Surrogate: Dibromofluoromethane		97.5%		81-125	•	•	•	•	

SunStar Laboratories, Inc.



Ber Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-8-15  
T400833-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	•	•	•	•	•	•	•
Bromodichloromethane	ND	2.0	•	•	•	•	•	•	•
Bromochloromethane	ND	2.0	•	•	•	•	•	•	•
Bromomethane	ND	2.0	•	•	•	•	•	•	•
n-Butylbenzene	ND	2.0	•	•	•	•	•	•	•
sec-Butylbenzene	ND	2.0	•	•	•	•	•	•	•
tert-Butylbenzene	ND	2.0	•	•	•	•	•	•	•
Carbon tetrachloride	ND	2.0	•	•	•	•	•	•	•
Chlorobenzene	ND	2.0	•	•	•	•	•	•	•
Chloroethane	ND	2.0	•	•	•	•	•	•	•
Chloroform	ND	2.0	•	•	•	•	•	•	•
Chloromethane	ND	2.0	•	•	•	•	•	•	•
2-Chlorotoluene	ND	2.0	•	•	•	•	•	•	•
4-Chlorotoluene	ND	2.0	•	•	•	•	•	•	•
Dibromochloromethane	ND	2.0	•	•	•	•	•	•	•
1,2-Dibromo-3-chloropropane	ND	2.0	•	•	•	•	•	•	•
1,2-Dibromoethane (EDB)	ND	2.0	•	•	•	•	•	•	•
Dibromomethane	ND	2.0	•	•	•	•	•	•	•
1,2-Dichlorobenzene	ND	2.0	•	•	•	•	•	•	•
1,3-Dichlorobenzene	ND	2.0	•	•	•	•	•	•	•
1,4-Dichlorobenzene	ND	2.0	•	•	•	•	•	•	•
Dichlorodifluoromethane	ND	2.0	•	•	•	•	•	•	•
1,1-Dichloroethane	ND	2.0	•	•	•	•	•	•	•
1,2-Dichloroethane	ND	2.0	•	•	•	•	•	•	•
1,1-Dichloroethene	ND	2.0	•	•	•	•	•	•	•
cis-1,2-Dichloroethene	ND	2.0	•	•	•	•	•	•	•
trans-1,2-Dichloroethene	ND	2.0	•	•	•	•	•	•	•
1,2-Dichloropropane	ND	2.0	•	•	•	•	•	•	•
1,3-Dichloropropane	ND	2.0	•	•	•	•	•	•	•
2,2-Dichloropropane	ND	2.0	•	•	•	•	•	•	•
1,1-Dichloropropene	ND	2.0	•	•	•	•	•	•	•
cis-1,3-Dichloropropene	ND	2.0	•	•	•	•	•	•	•
trans-1,3-Dichloropropene	ND	2.0	•	•	•	•	•	•	•
Hexachlorobutadiene	ND	2.0	•	•	•	•	•	•	•
Isopropylbenzene	ND	2.0	•	•	•	•	•	•	•
p-Isopropyltoluene	ND	2.0	•	•	•	•	•	•	•

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fincke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-8-15  
T400833-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Date
SunStar Laboratories, Inc.									
<b>Volatile Organic Compounds by EPA Method 8260B</b>									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	100	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropene	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	91.6%	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromoanisole	89.6%	74-121	-	-	-	-	-	-	
Surrogate: Dibromoanisole	105%	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.

TSB

The results in this report apply to the samples analyzed in accordance with the chain of custody documents. This analytical report must be reproduced in its entirety.

Ben Beauchaine, Laboratory Supervisor

Page 17 of 43

LFR Levine-Frnice  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-8-58  
T400833-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	-	-	-	-	-	-	-
Bromochloromethane	ND	2.0	-	-	-	-	-	-	-
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	-
Bromomethane	ND	2.0	-	-	-	-	-	-	-
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	-
Chlorobenzene	ND	2.0	-	-	-	-	-	-	-
Chloroethane	ND	2.0	-	-	-	-	-	-	-
Chloroform	ND	2.0	-	-	-	-	-	-	-
Chloromethane	ND	2.0	-	-	-	-	-	-	-
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	-
Dibromomethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	-
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	-
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	-

SunStar Laboratories, Inc.



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LFR Levine-Frnce  
3150 Bristol Street #250  
Costa Mesa CA, 92626

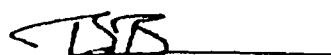
Project: Bodycote TechnuBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-8-58  
T400833-09 (Sell)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Comments
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0							
n-Propylbenzene	ND	2.0							
Styrene	ND	2.0							
1,1,2,2-Tetrachloroethane	ND	2.0							
1,1,1,2-Tetrachloroethane	ND	2.0							
Tetrachloroethene	ND	2.0							
1,2,3-Trichlorobenzene	ND	2.0							
1,2,4-Trichlorobenzene	ND	2.0							
1,1,2-Trichloroethane	ND	2.0							
1,1,1-Trichloroethane	ND	2.0							
Trichloroethene	ND	2.0							
Trichlorofluoromethane	ND	2.0							
1,2,3-Trichloropropene	ND	2.0							
1,3,5-Trimethylbenzene	ND	2.0							
1,2,4-Trimethylbenzene	ND	2.0							
Vinyl chloride	ND	2.0							
Benzene	ND	2.0							
Toluene	ND	2.0							
Ethylbenzene	ND	2.0							
m,p-Xylene	ND	4.0							
o-Xylene	ND	2.0							
Surrogate: Toluene-d8	92.2 %	81-117							
Surrogate: 4-Bromofluorobenzene	82.5 %	74-121							
Surrogate: Dibromofluoromethane	104 %	81-125							

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycore TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08 05 04 09:20

CS-7-19  
T400833-10 (Self)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/26/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	-	-	-	-	-	-	-
Bromochloromethane	ND	2.0	-	-	-	-	-	-	-
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	-
Bromoform	ND	2.0	-	-	-	-	-	-	-
Bromomethane	ND	2.0	-	-	-	-	-	-	-
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	-
Chlorobenzene	ND	2.0	-	-	-	-	-	-	-
Chlorofluorane	ND	2.0	-	-	-	-	-	-	-
Chloroform	ND	2.0	-	-	-	-	-	-	-
Chloromethane	ND	2.0	-	-	-	-	-	-	-
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	-
Dibromomethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
2,2-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	-
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	-
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	-

SunStar Laboratories, Inc.



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Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-7-19  
T400833-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	479	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropene	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	94.2%	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromo/morobenzene	87.5%	74-121	-	-	-	-	-	-	
Surrogate: Dibromo/moromethane	100%	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-7-36  
T400833-11 (Soil)

Analyst	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromofluoromethane	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropene	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-7-36  
T400833-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	18.00	46	-	22.91	-	-	07/30/04	-	
1,2,3-Trichlorobenzene	ND	2.0	-	1	-	-	07/29/04	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropene	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	95.9%	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromofluorobenzene	89.3%	74-121	-	-	-	-	-	-	
Surrogate: Dibromofluoromethane	101%	81-125	-	-	-	-	-	-	

SanStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-7-52  
T400833-12 (Soil)

Analysis	Result	Reporting Limit	Units	Dilution	Batch	Precared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07.28.04	07/29/04	EPA 8260B	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycole TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-7-52  
T400833-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07.28.04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	10	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropane	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
c-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	98.6%	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromo fluorobenzene	90.0%	74-121	-	-	-	-	-	-	
Surrogate: Dibromo fluoromethane	101%	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-10-19  
T400833-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	-	-	-	-	-	-	-
Bromochloromethane	ND	2.0	-	-	-	-	-	-	-
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	-
Bromoform	ND	2.0	-	-	-	-	-	-	-
Bromomethane	ND	2.0	-	-	-	-	-	-	-
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	-
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	-
Chlorobenzene	ND	2.0	-	-	-	-	-	-	-
Chloroethane	ND	2.0	-	-	-	-	-	-	-
Chloroform	ND	2.0	-	-	-	-	-	-	-
Chloromethane	ND	2.0	-	-	-	-	-	-	-
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	-
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	-
Dibromomethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	-
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	-
1,2-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
2,2-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	-
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	-
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	-
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	-

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-10-19  
T400833-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	•	•	•	•	•	•	•
n-Propylbenzene	ND	2.0	•	•	•	•	•	•	•
Styrene	ND	2.0	•	•	•	•	•	•	•
1,1,2,2-Tetrachloroethane	ND	2.0	•	•	•	•	•	•	•
1,1,1,2-Tetrachloroethane	ND	2.0	•	•	•	•	•	•	•
Tetrachloroethene	2300	48	•	24.14	•	•	•	•	•
1,2,3-Trichlorobenzene	ND	2.0	•	1	•	•	•	•	•
1,2,4-Trichlorobenzene	ND	2.0	•	•	•	•	•	•	•
1,1,2-Trichloroethane	ND	2.0	•	•	•	•	•	•	•
1,1,1-Trichloroethane	ND	2.0	•	•	•	•	•	•	•
Trichloroethene	4.7	2.0	•	•	•	•	•	•	•
Trichlorofluoromethane	ND	2.0	•	•	•	•	•	•	•
1,2,3-Trichloropropane	ND	2.0	•	•	•	•	•	•	•
1,3,5-Trimethylbenzene	ND	2.0	•	•	•	•	•	•	•
1,2,4-Trimethylbenzene	ND	2.0	•	•	•	•	•	•	•
Vinyl chloride	ND	2.0	•	•	•	•	•	•	•
Benzene	4.9	2.0	•	•	•	•	•	•	•
Toluene	3.1	2.0	•	•	•	•	•	•	•
Ethylbenzene	ND	2.0	•	•	•	•	•	•	•
m,p-Xylene	ND	4.0	•	•	•	•	•	•	•
<i>o</i> -Xylene	ND	2.0	•	•	•	•	•	•	•
Surrogate: Toluene-d8	96.4 %	81-117	•	•	•	•	•	•	•
Surrogate: 4-Bromofluorobenzene	88.2 %	74-121	•	•	•	•	•	•	•
Surrogate: Dibromoformmethane	103 %	81-125	•	•	•	•	•	•	•

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-10-33  
T400833-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.



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Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechBraze  
Project Number 002-10272-00  
Project Manager Jennifer Rothman

Reported:  
08/05/04 09:20

CS-10-33  
T400833-14 (Sell)

Analyst	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
<b>Volatile Organic Compounds by EPA Method 8260B</b>									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	900	46	-	23.03	-	-	-	-	
1,1,3-Trichlorobenzene	ND	2.0	-	1	-	-	-	-	
1,1,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,1,3-Trichloropropene	ND	2.0	-	-	-	-	-	-	
1,1,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,1,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
<i>o</i> -Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	98.6%	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromofluorobenzene	92.2%	74-121	-	-	-	-	-	-	
Surrogate: Dibromofluoromethane	109%	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.

*LSB*

Ben Beauzaaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-10-38  
T400833-15 (Sell)

Analyst	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycole TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-10-38  
T400833-15 (Soil)

Analyte	Result	Reporting Limit	Unit	Dilution	Batch	Prepared	Analyzed	Method	Comments
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	2400	280	-	139	-	-	07/30/04	-	
1,2,3-Trichlorobenzene	ND	2.0	-	1	-	-	07/29/04	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropene	ND	2.0	-	-	-	-	-	-	
1,3,5 Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,2,4 Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	94.9 %	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromo/fluorobenzene	88.5 %	74-121	-	-	-	-	-	-	
Surrogate: Dibromo/fluoromethane	108 %	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-3-22.5  
T400833-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.

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Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-3-22.5  
T400833-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Styrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	700	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1,3-Trichloropropene	ND	2.0	-	-	-	-	-	-	
1,1,1,3-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,1,1,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	101%	8J-117	-	-	-	-	-	-	
Surrogate: 4-Bromoanisole	91.7%	74-121	-	-	-	-	-	-	
Surrogate: Dibromoanisole	105%	8J-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.



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Ben Beauchamp, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-3-48  
T400833-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
<b>Volatile Organic Compounds by EPA Method 8260B</b>									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-3-48  
T400833-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0							
n-Propylbenzene	ND	2.0							
Styrene	ND	2.0							
1,1,2,2-Tetrachloroethane	ND	2.0							
1,1,1,2-Tetrachloroethane	ND	2.0							
Tetrachloroethene	S4	2.0							
1,2,3-Trichlorobenzene	ND	2.0							
1,2,4-Trichlorobenzene	ND	2.0							
1,1,2-Trichloroethane	ND	2.0							
1,1,1-Trichloroethane	ND	2.0							
Trichloroethene	ND	2.0							
Trichlorofluoromethane	ND	2.0							
1,2,3-Trichloropropane	ND	2.0							
1,3,5-Trimethylbenzene	ND	2.0							
1,2,4-Trimethylbenzene	ND	2.0							
Vinyl chloride	ND	2.0							
Benzene	ND	2.0							
Toluene	ND	2.0							
Ethylbenzene	ND	2.0							
m,p-Xylene	ND	4.0							
c-Xylene	ND	2.0							
Surrogate: Toluene-d8		97.2 %		81-117					
Surrogate: 4-Bromoanisole		89.3 %		74-121					
Surrogate: Dibromofluoromethane		106 %		81-125					

SunStar Laboratories, Inc.

Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-11-10  
T400833-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromochloromethane	ND	2.0	-	-	-	-	-	-	
Bromodichloromethane	ND	2.0	-	-	-	-	-	-	
Bromofluoromethane	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloromethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromochloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

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LFR Levine-Fincke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager Jennifer Rothman

Reported:  
08/05/04 09:20

CS-11-10  
T400833-18 (Sell)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Precared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Vinyl chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
c-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Syrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	350	2.0	-	-	-	-	-	-	
1,1,2-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethylene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,1,3-Trichloropropene	ND	2.0	-	-	-	-	-	-	
1,1,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,1,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
m-Xylene	ND	2.0	-	-	-	-	-	-	
p-Xylene	ND	4.0	-	-	-	-	-	-	
o-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	98.7%	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromofluorobenzene	87.4%	74-121	-	-	-	-	-	-	
Surrogate: Dibromoethane	99.7%	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.



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Jennifer Beauchaine, Laboratory Supervisor

Page 37 of 43

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechuBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-11-43.5  
T400833-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Bromo-chloroethane	ND	2.0	-	-	-	-	-	-	
Bromo-dichloromethane	ND	2.0	-	-	-	-	-	-	
Bromoform	ND	2.0	-	-	-	-	-	-	
Bromomethane	ND	2.0	-	-	-	-	-	-	
n-Butylbenzene	ND	2.0	-	-	-	-	-	-	
sec-Butylbenzene	ND	2.0	-	-	-	-	-	-	
tert-Butylbenzene	ND	2.0	-	-	-	-	-	-	
Carbon tetrachloride	ND	2.0	-	-	-	-	-	-	
Chlorobenzene	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
Chloroform	ND	2.0	-	-	-	-	-	-	
Chloroethane	ND	2.0	-	-	-	-	-	-	
2-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
4-Chlorotoluene	ND	2.0	-	-	-	-	-	-	
Dibromo-chloromethane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane	ND	2.0	-	-	-	-	-	-	
1,2-Dibromoethane (EDB)	ND	2.0	-	-	-	-	-	-	
Dibromomethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,3-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,4-Dichlorobenzene	ND	2.0	-	-	-	-	-	-	
Dichlorodifluoromethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,2-Dichloroethane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloroethene	ND	2.0	-	-	-	-	-	-	
cis-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
trans-1,2-Dichloroethene	ND	2.0	-	-	-	-	-	-	
1,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,3-Dichloropropane	ND	2.0	-	-	-	-	-	-	
2,2-Dichloropropane	ND	2.0	-	-	-	-	-	-	
1,1-Dichloropropene	ND	2.0	-	-	-	-	-	-	
cis-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
trans-1,3-Dichloropropene	ND	2.0	-	-	-	-	-	-	
Hexachlorobutadiene	ND	2.0	-	-	-	-	-	-	
Isopropylbenzene	ND	2.0	-	-	-	-	-	-	
p-Isopropyltoluene	ND	2.0	-	-	-	-	-	-	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LFR Levine-Fincke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

CS-11-43.5  
T400833-19 (Soil) -

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Methylene chloride	ND	2.0	ug/kg	1	4072801	07/28/04	07/29/04	EPA 8260B	
Naphthalene	ND	2.0	-	-	-	-	-	-	
n-Propylbenzene	ND	2.0	-	-	-	-	-	-	
Syrene	ND	2.0	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	ND	2.0	-	-	-	-	-	-	
Tetrachloroethene	196	2.0	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ND	2.0	-	-	-	-	-	-	
1,1,2-Trichloroethane	ND	2.0	-	-	-	-	-	-	
1,1,1-Trichloroethane	ND	2.0	-	-	-	-	-	-	
Trichloroethene	ND	2.0	-	-	-	-	-	-	
Trichlorofluoromethane	ND	2.0	-	-	-	-	-	-	
1,2,3-Trichloropropane	ND	2.0	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
1,1,4-Trimethylbenzene	ND	2.0	-	-	-	-	-	-	
Vinyl chloride	ND	2.0	-	-	-	-	-	-	
Benzene	ND	2.0	-	-	-	-	-	-	
Toluene	ND	2.0	-	-	-	-	-	-	
Ethylbenzene	ND	2.0	-	-	-	-	-	-	
m,p-Xylene	ND	4.0	-	-	-	-	-	-	
t,p-Xylene	ND	2.0	-	-	-	-	-	-	
Surrogate: Toluene-d8	95.5 %	81-117	-	-	-	-	-	-	
Surrogate: 4-Bromoanisole	87.0 %	74-121	-	-	-	-	-	-	
Surrogate: DeBromoanisole	100 %	81-125	-	-	-	-	-	-	

SunStar Laboratories, Inc.

Beauchaine, Laboratory Supervisor

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LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control  
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spke Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4072801 - EPA 5035 Soil MS										
Blank (4072801-BLK1)										
Bromobenzene	ND	2.0	ug/kg							
Bromo-chloromethane	ND	2.0								
Bromo-dichloromethane	ND	2.0								
Bromoform	ND	2.0								
Bromo-methane	ND	2.0								
n-Butylbenzene	ND	2.0								
sec-Butylbenzene	ND	2.0								
tert-Butylbenzene	ND	2.0								
Carbon tetrachloride	ND	2.0								
Chlorobenzene	ND	2.0								
Chloroethane	ND	2.0								
Chloroform	ND	2.0								
Chloromethane	ND	2.0								
2-Chlorotoluene	ND	2.0								
4-Chlorotoluene	ND	2.0								
Dibromo-chloromethane	ND	2.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
1,2-Dibromoethane (EDB)	ND	2.0								
Dibromomethane	ND	2.0								
1,2-Dichlorobenzene	ND	2.0								
1,3-Dichlorobenzene	ND	2.0								
1,4-Dichlorobenzene	ND	2.0								
Dichlorodifluoromethane	ND	2.0								
1,1-Dichloroethane	ND	2.0								
1,2-Dichloroethane	ND	2.0								
1,1-Dichloroethene	ND	2.0								
cis-1,2-Dichloroethene	ND	2.0								
trans-1,2-Dichloroethene	ND	2.0								
1,2-Dichloropropane	ND	2.0								
1,3-Dichloropropene	ND	2.0								
2,2-Dichloropropene	ND	2.0								
1,1-Dichloropropene	ND	2.0								
cis-1,3-Dichloropropene	ND	2.0								
trans-1,3-Dichloropropene	ND	2.0								
Hexachlorobutadiene	ND	2.0								
Isopropylbenzene	ND	2.0								
p-Isopropyltoluene	ND	2.0								
Methylene chloride	ND	2.0								
Naphthalene	ND	2.0								
n-Propylbenzene	ND	2.0								
Styrene	ND	2.0								

SunStar Laboratories, Inc.

*[Signature]*

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Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
1150 Bristol Street #250  
Santa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**SunStar Laboratories, Inc.**

Sample	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4072801 - EPA 5035 Soil MS</b>										
<b>NRimk (4072801-BLK1)</b>										
1,1,2-Tetrachloroethane	ND	2.0	ug/kg	•						
1,1,2-Tetrachloroethene	ND	2.0	•							
1,1,1-Trichloroethene	ND	2.0	•							
1,1,2-Trichlorobenzene	ND	2.0	•							
1,1,2,4-Trichlorobenzene	ND	2.0	•							
1,1,2,5-Trichlorobenzene	ND	2.0	•							
1,1,2,2-Trichloroethane	ND	2.0	•							
1,1,2,3-Trichloroethane	ND	2.0	•							
1,1,2,4-Trichloroethene	ND	2.0	•							
1,1,2,2-Tetrachlorofluoromethane	ND	2.0	•							
1,1,2,2-Tetrachloropropene	ND	2.0	•							
1,1,2,2-Trimethylbenzene	ND	2.0	•							
1,1,2,2,4-Trimethylbenzene	ND	2.0	•							
Vinyl chloride	ND	2.0	•							
Bromomethane	ND	2.0	•							
Tetrachloroethene	ND	2.0	•							
Bromodichloromethane	ND	2.0	•							
m,p-Xylene	ND	4.0	•							
p,p'-Xylene	ND	2.0	•							
Surrogate: Toluene-d8	96.6		•	100		96.6	81-117			
Surrogate: 4-Bromofluorobenzene	94.4		•	100		94.4	74-121			
Surrogate: Dibromofluoromethane	105		•	100		105	81-125			
<b>Batch 4072801-BS1</b>										
<b>NRimk (4072801-BS1)</b>										
1,1,2,2-Tetrachloroethane	274	2.0	ug/kg	250		110	75-125			
1,1,2,3-Tetrachloroethene	231	2.0	•	250		92.4	15-125			
1,1,2,2-Tetrachloroethene	309	2.0	•	250		124	75-125			
Bromomethane	296	2.0	•	250		118	75-125			
Tetrachloroethene	290	2.0	•	250		116	75-125			
Surrogate: Toluene-d8	96.9		•	100		96.9	81-117			
Surrogate: 4-Bromofluorobenzene	89.1		•	100		89.1	74-121			
Surrogate: Dibromofluoromethane	107		•	100		107	81-125			

Sunbeam Star Laboratories, Inc.

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Bethany Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4072801 - EPA 5035 Soil MS</b>										
<b>LCS Dup (4072801-BSD1)</b>										
Prepared: 07/28/04 Analyzed: 07/29/04										
Chlorobenzene	281	2.0	ug/kg	250	112	75-125	2.52	20		
1,1-Dichloroethane	239	2.0	"	250	95.6	75-125	3.40	20		
Trichloroethylene	311	2.0	"	250	124	75-125	0.645	20		
Benzene	299	2.0	"	250	120	75-125	1.01	20		
Toluene	299	2.0	"	250	120	75-125	3.06	20		
Surrogate: Toluene-d8	98.0		"	100	98.0	81-117				
Surrogate: 4-Bromofluorobenzene	88.7		"	100	88.7	74-121				
Surrogate: Dibromofluoromethane	109		"	100	109	81-125				

SunStar Laboratories, Inc.



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Ben Beauchaine, Laboratory Supervisor

LFR Levine-Fricke  
3150 Bristol Street #250  
Costa Mesa CA, 92626

Project: Bodycote TechniBraze  
Project Number: 002-10272-00  
Project Manager: Jennifer Rothman

Reported:  
08/05/04 09:20

#### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.



Ben Beauchaine, Laboratory Supervisor

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